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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/918,602	07/30/2001	Christopher P. Jalbert	04860P2441	5216
James C. Shelle	7590 04/20/2007		EXAM	IINER
BLAKELY, SO	OKOLOFF, TAYLOR &	PYZOCHA,	PYZOCHA, MICHAEL J	
Seventh Floor 12400 Wilshire Boulevard Los Angeles, CA 90025-1026			ART UNIT	PAPER NUMBER
			2137	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/20/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

1)⊠ Responsive to communication(s) filed on 23 February 2007. 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 ⋈ Claim(s) 1,3-5.8-26 and 29-41 is/are pending in the application. 4a) Of the above claim(s)		Application No.	Applicant(s)			
Michael Pyzocha 2137 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. 3 In 30 cered for rebly is appetited above, the maining date of this communication. 1 PM 0 period for rebly is appetited above, the maining date of this communication. 1 PM 0 period for rebly is appetited above, the maining date of this communication. 2 PM 0 period for rebly is appetited above, the maining date of this communication. 3 In 30 cered for rebly is appetited above, the maining date of this communication. 4 PM 0 period for rebly is appetited by the Office little than these moints after the mailing date of this communication, seen if sinely field, rebly reduce by the Office little than these moints after the mailing date of this communication, seen if sinely field, rebly reduce by the Office little than these moints after the mailing date of this communication, seen if sinely field, rebly reduce by the Office little than these moints after the mailing date of this communication, seen if sinely field, rebly reduce by the Office little than these moints after the mailing date of this communication, seen if sinely field, rebly reduce by the Status of the produce of the produce of this communication, seen if sinely field, rebly reduce by the Status of the seen and part than the mailing date of this communication. 4 In 3 Calmine seed that the seed of the seen and part than the mailing date of this communication. 4 In 3 Calmine seed that the seen and the mailine seed of the mailine seen and the seen and the mailine seed of the seen and the mailine seed of the seen and the seen	Office Action Summer.	09/918,602	JALBERT ET AL.			
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DETAILED ACTION

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1. Claims 1, 3-5, 8-26, and 29-41 are pending.

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/23/2007 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 3-5, 8-22, 24-26, and 29-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vogelesang, U.S. Patent No. 5,953,424, in view of Menezes (Menezes, Alfred J. Handbook of Applied Cryptography. CRC Press. 1997. pages 234-237) and

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further in view of (Simple Network Authenticating Key Exchange) (hereinafter Snake).

As per claims 1, 20, 21, 22, 24, and 38-40, Vogelesang discloses a cryptographic method comprising: generating, at a first entity, a first public key M_B , the first public key M_B being session specific (Vogelesang: Col 16, lines 33-35); receiving, at a first entity, a second public key MA, the second public key M_A being session specific (Vogelesang: Col 16, lines 36-38); generating, at the first entity, a first session key K_B and a first secret S_B. the first session key K_B being different from the first secret S_B , both the first session key K_B and the first secret S_B being computed from the second public key M_A (Vogelesang: Col 16, lines 39-67); encrypting, at the first entity, a first random nonce N_B with the first session key K_B or the first secret S_B to obtain a first encrypted result (Vogelesang: Col 16, lines 43-67); transmitting the encrypted random nonce from the first entity to the second entity (Vogelesang: Col 16, lines 64-67); receiving a response to the encrypted random nonce (Vogelesang: Col 17, lines 19-24); authenticating through determining whether the response includes a correct modification of the first random nonce N_B (Vogelesang: Col 17, lines 28-30).

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Vogelesang teaches that a first random nonce may be encrypted at the first entity with a session key to obtain a first encrypted result (e.g. Col 16, lines 64-67). Vogelesang also teaches a number of secrets that are generated using the second public key (e.g. T, Y_D , and other values which qualify as a "secret" under MPEP 2111). However, Vogelesang does not appear to suggest that the first encrypted result may be double encrypted.

Menezes teaches that encipherment of a message more than once "may increase security" (Menezes: page 234). Further, illustrates the process whereby a message may be encrypted once with a first key and a second time with another key (Menezes: page 234, part (a)). Combining the ideas of Menezes with Vogelesang facilitates a system in which a message may be encrypted once with a first key (e.g. session key) (part d) and a second time with another key (e.g. secret). It would have been obvious to one of ordinary skill in the art at the time the invention was filed to combine the ideas of Menezes with those of Vogelesang because doing so may increase security.

The modified Vogelesang and Menezes system fails to disclose the specific generation of the first secret.

However, Snake teaches generating a secret based on a function of a password, and two public values (see page 1).

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At the time of the invention it would have been obvious to a person of ordinary skill in the art to use the secret generating method of Snake using the public keys of the modified Vogelesang and Menezes system as the public values.

Motivation to do so would have been to provide mutual authentication (see page 2).

As per claims 3 and 4, the modified Vogelesang, Menezes, and Snake system discloses checking whether a received modification of the first random nonce N_B equals a modification of the first random nonce N_B applied by the first entity (Vogelesang: Col 17, lines 25-37).

As per claim 5, the modified Vogelesang, Menezes, and Snake system discloses generating a first random number R_B (Vogelesang: Col 16, lines 39-40); computing the first session key K_B from the second public key M_A raised to the exponential power of the first random number R_B , modulo a parameter B_B (Vogelesang: Col 16, lines 39-42).

As per claims 8-10 and 29-31, the modified Vogelesang,
Menezes, and Snake system discloses the combining function is a
hash function (see Snake page 1).

As per claims 11 and 32, the modified Vogelesang, Menezes, and Snake system discloses combining the values to arrive at a

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first and second result (see Snake page 1 message 3 and 4 where the key is calculated on each side)

As per claims 12 and 13, the modified Vogelesang, Menezes, and Snake system discloses wherein the first random nonce is encrypted using a symmetrical encryption algorithm (Vogelesang: Col 16, lines 64-67).

As per claims 17-19, the modified Vogelesang, Menezes, and Snake system discloses extracting the second random nonce N_A from the response (Vogelesang: Col 16, line 39 to Col 17, line 28); modifying the second random nonce N_A to obtain a modified second random nonce (Vogelesang: Col 16, line 39 to Col 17, line 28); encrypting the modified second random nonce using the first session key K_B and the first secret S_B to obtain an encrypted package (Vogelesang: Col 16, line 39 to Col 17, line 28); transmitting the encrypted package from the first entity (Vogelesang: Col 16, line 39 to Col 17, line 28).

As per claim 26, the modified Vogelesang, Menezes, and Snake system discloses generating a first random number R_B (Vogelesang: Col 16, lines 39-40); computing the first session key K_B from the second public key M_A raised to the exponential power of the first random number R_B , modulo a parameter B_B (Vogelesang: Col 16, lines 39-42).

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As per claims 34-37, the modified Vogelesang, Menezes, and Snake system discloses generating a first random number N_B (Vogelesang: Col 16, line 33 to Col 17, line 27); encrypting a combination of the first random number N_B and the modified second random number (Vogelesang: Col 16, line 33 to Col 27, line 27).

As per claims 14-16, 25, and 33, the modified Vogelesang, Menezes, and Snake system discloses wherein encrypting the first random nonce N_B includes superencrypting the first random nonce N_B (Menezes: pages 234-237).

As per claim 41, the modified Vogelesang, Menezes, and Snake system discloses wherein the network is a network operating according to a hypertext transfer protocol and the first public key M_B is transmitted for session key exchange before the encrypted second random number is received (Vogelesang: Col 1, lines 12-14; Col 16, lines 25-67).

4. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vogelesang in view of Menezes and further in view of Snake.

As per claim 23, discloses a network operating according to a hypertext transfer protocol and the first public key M_B is transmitted with the encrypted random nonce for session key exchange.

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The modified Vogelesang, Menezes, and Snake system does not disclose transmitting the first public key M_B with the encrypted random nonce. Applicant's failure to argue the previous official notice of the subject matter of claim 23 is taken as acquiescence that the subject matter of claim 23 is obvious (See MPEP 2144.03). It would have been obvious to one of ordinary skill in the art at the time the invention was filed to transmit a key with a nonce because doing so is more efficient than having to make two separation transmissions for the key and the nonce.

Response to Arguments

5. Applicant's arguments with respect to claims 1, 3-5, 8-26, and 29-41 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Field et al. discloses a method of using a public key and password to generate a key.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael

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Pyzocha whose telephone number is (571) 272-3875. The examiner can normally be reached on 7:00am - 4:30pm first Fridays of the bi-week off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MJP

EMMANUEL L. MOISE SUPERVISORY PATENT EXAMINER